

ABSTRACT

A process for the preparation of 1,1-cyclohexanediacetic acid monoamide comprising the amination of 1,1-cyclohexanediacetic acid anhydride by reaction with aqueous NH₃ at a temperature lower than 30°C by using a NH₃/anhydride molar ratio lower than 3, and the product precipitation through the acidification of the reaction mixture; a precipitation process of 1,1-cyclohexanediacetic acid monoamide; and a process for the synthesis of gabapentin comprising the above preparation of 1,1-cyclohexanediacetic acid monoamide, the Hofmann transposition of the same monoamide, the purification of a gabapentin salt and the crystallization from organic solvent.